IN THE CLAIMS

- 1. (currently amended) Low expansion transparent glass-ceramics obtained by heat treating a base glass produced at a melting temperature of 1530° or below, said glass-ceramics comprising RO, where R is Mg, Ca, Ba, Sr or Zn, in a total amount of 6 25 mass% on the basis of total oxides and wherein said ceramic contains 0.5 2 mass% of CaO, 3.5[[%]]-6 mass% TiO₂ and 0.5[[%]]- 2 mass%MgO on the basis of the amount of total oxides, said glass-ceramics being free of P_2O_5 , and having an average linear thermal expansion coefficient (α) within a range from $+6\times10^{-7}$ /°C to $+35\times10^{-7}$ /°C within a temperature range from 100° to 300° and having 80%. transmittance wavelength (T_{80}) of 700nm or below.
- 2. (original) Low expansion transparent glass-ceramics as defined in claim 1 wherein internal transmittance for a plate having thickness of 10mm is 75% or over at light wavelength of 1550nm.
- 3. (original) Low expansion transparent glass-ceramics as defined in claim 1 having a heat resisting temperature of 800°C or over.
- 4. (original) Low expansion transparent glass-ceramics as defined in claim 1 having Young's modulus of 90 GPa or over.
- 5. (original) Low expansion transparent glass-ceramics as defined in claim 1 containing β -quartz or β -quartz solid solution as a predominant crystal phase.
- 6. (original) Low expansion transparent glass-ceramics as defined in claim 1 containing 1.5% 3.5% Li₂O in mass % on the basis of amount of total oxides.

- 7. (original) Low expansion transparent glass-ceramics as defined in claim 1 wherein amount of eluting lithium ion is less than $0.0050\mu g/cm^2$.
- 8. (canceled)
- 9. (canceled)
- 10. (currently amended) Low expansion transparent glass-ceramics as defined in claim 1 containing ZnO in a larger amount than other <u>RO oxide</u> ingredients in mass % on the basis of amount of total oxides.
- 11. (cancerled)
- 12. (currently amended) Low expansion transparent glass-ceramics as defined in claim 1 containing a total amount of R'O ingredients, [[(]]where R' is Mg, Ca, Ba or Sr[[)]] of 3.5% 13% in mass % on the basis of amount of total oxides.
- 13. (currently amended) Low expansion transparent glass-ceramics as defined in claim 1 comprising in mass % on the basis of amount of total oxides:

SiO_2	50 – 65%
Al_2O_3	20 - 30%
MgO	0.5 - 2%
CaO	0.5 - 2%
SrO	0 - 10%
BaO	1 - 5%
ZnO	0.5 - 15%
Li ₂ O	1.5 - 3.5%
TiO ₂	3 <u>.5</u> - 6%
ZrO_2	1 - 5%
Nb_2O_5	0 - 5%

 La_2O_3 0 - 5% Y_2O_3 0 - 5% As_2O_3 and/or Sb_2O_3 0 - 2%.

- 14. (canceled)
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43. (previously presented) Low expansion transparent glass-ceramics obtained by heat treating a base glass produced by melting oxides at a melting temperature of 1530° or below, said glass-ceramics being free of P_2O_5 and having an average linear thermal expansion coefficient (α) within a range from $+6\times10^{-7}$ /°C to $+35\times10^{-7}$ /°C within a temperature range from 100° to 300° and having 80% transmittance wavelength (T_{80}) of 700nm or below said oxides being selected from the group comprising in mass % on the basis of the amount of total oxides:

SiO_2	50 - 65%
Al_2O_3	0 - 30%
MgO	0.5 - 2%
CaO	0.5 - 2%
SrO	0 - 10%
BaO	1 - 5%
ZnO	0.5 - 15%
Li ₂ O	1.5 - 3.5%
TiO ₂	3 - 6%
ZrO_2	1 - 5%
Nb_2O_5	0 - 5%
La_2O_3	0 - 5%
Y_2O_3	0 - 5%
As ₂ O ₃ and/or Sb ₂ O ₃	0 - 2%.